

**THERAPEUTIC USE OF D-METHIONINE
TO REDUCE THE TOXICITY OF RADIATION**

ABSTRACT OF THE DISCLOSURE

Methods of preventing or treating ototoxicity, neurotoxicity, alopecia, gastrointestinal disorder, and reduced survival in patients who have been exposed to toxic levels of radiation are provided. These methods comprise administering an effective amount of a protective agent comprising a methionine or a methionine-like moiety to said patient prior to, simultaneously with, or subsequently to exposure to radiation. Combinations of these time periods can also be employed.